PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

David Kirn and Steve H. Thorne

Serial No.: 10/524,932

Filed: January 4, 2006

For: METHODS AND COMPOSITIONS

CONCERNING POXVIRUSES AND CANCER

CANCE.

Group Art Unit: 1648

Examiner: Li, Bao Q.

Atty. Dkt. No.: KIRN:002US

Confirmation No.: 1635

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office via EFS-Web on the date below:

June 5, 2007 Date

Charles P. Landrum

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R. §§ 1.97(g), (h), this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to

patentability as defined in 37 C.F.R. § 1.56(b).

The present Supplemental Information Disclosure Statement is being filed prior to the

receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in

connection with the filing of this Supplemental Information Disclosure Statement, however,

should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to

these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright &

Jaworski Deposit Account No.: 50-1212/KIRN:002US.

This application may be related by inventorship and subject matter to co-pending U.S.

application number 11/470.951, filed September 7, 2006.

Applicants respectfully request that the listed documents be made of record in the present

case.

Respectfully submitted.

Charles P. Landrum

Reg. No. 46,855

Attorney for Applicants

Date: June 5, 2007

FULBRIGHT & JAWORSKI L.L.P.

600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

			rage rors
Form PTO-1449 (modified)		Atty. Docket No.:	Serial No.:
		KIRN:002US	10/524,932
List of Patents and Publications for	Applicant's	Applicant:	
		David Kirn	
INFORMATION DISCLOSURE S	INFORMATION DISCLOSURE STATEMENT		
		Filing Date:	Group:
(Use several sheets if necessa	ıry)	January 4, 2006 1648	
U.S. Patent Documents	Foreign Patent Documents		Other Art
See Page 1		See Page 1	See Page 1-3

# U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A13	2003/0025141	02/06/03	Grimm	257	301	07/19/02
	A14	2003/0086906	05/08/03	Mastrangelo et al	424	93.2	11/04/02
	A15	2004/0091995	05/13/04	Schlom et al.	435	235.1	07/16/03
	A16	2005/0031643	02/10/05	Szalay et al.	424	199.1	06/18/04
	A17	2006/0051370	03/09/06	Szalay et al.	424	199.1	09/27/05
	A18	2007/0025981	02/01/07	Szalay et al.	424	130.1	09/27/06
	A19	5,656,465	08/12/97	Panicali et al.	435	456	05/04/94
	A20	6,475,999	11/05/02	Mastrangelo et al.	514	44	06/19/00
	A21	6,521,449	02/18/03	Polack et al.	435	320.1	11/04/99
	A22	7,208,313	04/24/07	McCart et al.	435	320.1	11/13/01

# **Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Language
	B2	WO 2004/014314	02/19/04	WIPO	English

# Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C125	Buller and Palumbo, "Poxvirus Pathogenesis," Microbiol Rev, 55:80-122, 1991.
	C126	Cantrell et al., "Cloning, sequence, and expression of a human granulocyte/macrophage colony- stimulating factor," Proc. Natl Acad. Sci. USA, 82:6250-6254, 1985.
	C127	Dranoff et al., "Vaccination with irradiated tumor cells engineered to secrete murine granulocyte-macrophage colony-stimulating factor stimulates potent, specific, and long-lasting anti-tumor immunity," Proc. Natl. Acad. Sci. UKA, 90:3359-3343, 1993.

25783450.1

EXAMINER:	DATE CONSIDERED:
EXAMINER: INITIAL IS DESERRING CONSIDERED, MUSTUSE OF NOT CIT.	TION IS BLOOMEORA ANCE MITH MDEDGOS. DO ANNU DE TURQUO.

			rage 2 01 3		
Form PTO-1449 (modified)		Atty. Docket No.:	Serial No.:		
List of Patents and Publications for Applicant's		KIRN:002US	10/524,932		
		Applicant:			
		David Kirn			
Information Disclosure S	INFORMATION DISCLOSURE STATEMENT		Steve H. Thorne		
		Filing Date:	Group:		
(Use several sheets if necessa	ry)	January 4, 2006	1648		
U.S. Patent Documents	Foreign Patent Documents		Other Art		
See Page 1	S	See Page 1	See Page 1-3		

# Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Ref. Init. Des.		Citation
	C128	Heise et al., "ONYX-015, an E1B gene-attenuated adenovirus, causes tumor-specific cytolysis and antitumoral efficacy that can be augmented by standard chemotherapeutic agents," Nat Med., 36:59-45, 1997.
	C129	Isaacs et al., "Vaccinia virus complement-control protein prevents antibody-dependent complement-enhanced neutralization of infectivity and contributes to virulence," Proc. Natl. Acad. Sci. USA, 89(2):628-32, 1992.
	C130	Kim et al., "167. Both Oncolysis and Tumor Immunity Are Involved in an Antitumoral Efficacy by Intratumoral Injection of Recombinant Vaccinia Virus (TK Deleted, hGM-CSF Inserted Wyeth Strain) in a VX2 Rabbit Model," Mol. Therapp., 11:67, 2005.
	C131	Kim et al., "Systemic Armed Oncolytic and Immunologic Therapy for Cancer with JX-594, a Targeted Poxvirus Expressing GM-CSF," Mol Ther, 14:361-70, 2006.
	C132	Kim et al., "Systemic Oncolytic and Immunologic Therapy for Cancer with JX-594, a Targeted Poxvirus Expressing GM-CSF," Mol. Ther., 13:S244-S245, 2006.
	C133	Lee et al., "406. Enhancedc Vaccinia-meditated Antitumor Response after Specific Inhibiton of the Cellular Immune Response," Mol. Ther., 1:S156-S157, 2000.
	C134	Mastrangelo and Lattime, "Virotherapy clinical trials for regional disease: in situ immune modulation using recombinant poxvirus vectors," Cancer Gene Ther., 9:1013-1021, 2002.
	C135	Mastrangelo et al., "Intralesional Vaccinia/GM-CSF Recombinant Virus in the Treatment of Metastatic Melanoma," Adv. Exp. Med. Biol., 465:391-400, 2000.
	C136	Mastrangelo et al., "Intratumoral recombinant GM-CSF-encoding virus as gene therapy in patients with cutaneous melanoma," Cancer Gene Ther., 6:409-422, 1999.
	C137	Parato et al., "Recent Progress in the Battle between Oncolytic Viruses and Tumours," Nat Rev Cancer, 5, 965-76, 2005.
	C138	Puhlmann et al., "Thymidine Kinase-Deleted Vaccinia Virus Expressing Purine Nucleoside Phosphorylase as a Vector for Tumor-Directed Gene Therapy," Hum Gene Ther., 10: 649-57, 1999.
	C139	Thorne and Kirn, "Future directions of the field oncolytic virotherapy: a perspective on the use of vaccinia virus," Expert Opinion Biol. Ther., 4:1307-1321, 2004.

### 25783450.1

Examiner:	/Bao Li/	DATE CONSIDERED:	04/11/2008		
EXAMINER: INITIAL I	F REFERENCE CONSIDERED, WHET	THER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609;	DRAW LINE THROUGH		
CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.					

			1 1160 5 01 5	
Form PTO-1449 (modified)		Atty. Docket No.:	Serial No.:	
		KIRN:002US	10/524,932	
List of Patents and Publications for Applicant's		Applicant:		
		David Kirn		
INFORMATION DISCLOSURE STATEMENT		Steve H. Thorne		
		Filing Date:	Group:	
(Use several sheets if necessary)		January 4, 2006	1648	
U.S. Patent Documents	Foreign F	atent Documents	Other Art	
See Page 1	s	ee Page 1	See Page 1-3	

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)					
Exam. Init.	Ref. Citation				
	C140	Thome et al., "169. The Creation of Novel Oncolytic Vaccinia Virus Vectors for Efficient Systemic Delivery of Transgenes to Tumors," Mol. Ther., 11:67, 2005.			
	C141	Thorne et al., "Rational Strain Selection and Engineering Creates a Broad Spectrum Systemically Effective Oncolytic Poxvirus JX-963," Article in Press, 2007.			
	C142	Thorne et al., "The Use of Oncolytic Vaccinia Viruses in the Treatment of Cancer: A New Role for an Old Ally?," Current Gene Therapy, 5:429-443, 2005.			
	C143	Upton et al., "Encoding of a Homolog of the IFN-γ Receptor by Myxoma Virus," Science, 258:1369-1372, 1992.			

#### 25783450.1

EXAMINER:	/Bao Li/	DATE CONSIDERED:	04/11/2008
		THER OR NOT CITATION IS IN CONFORMANCE WITH MPEP ED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICA	